

TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA									
Parameter/Method	Matrix	Field Samples	Blgd	QC Sample Summary					Total Field and QA/QC Analytes (not including MS/MSD)
				Dup	Trip ¹ Blanks	Rinse ^{2a} Blanks	Field ³ Blanks	MS/MSD	
Alkalinity (SM 2320B) (Total Hardness, HCO ₃ , CO ₃) (2320B, 2340B)	drinking water	60	0	6	0	0	5	0	71
Alcohols: Ethanol, methanol, 1-propanol, 2-butanol, 2-butanol (B015D)	drinking water	60	0	6	0	0	5	3	71
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO ₄ (300.0)	drinking water	60	0	6	0	0	5	0	71
Bacteria (total coliform, HPC)	drinking water	60	0	6	0	0	5	0	71
d ¹³ C and d ¹⁴ C of methane (isotech)	drinking water	10	0	0	0	0	0	0	10
d ¹³ C of inorganic carbon (isotech)	drinking water	10	0	0	0	0	0	0	10
Complete compositional analysis of headspace gas (isotech)	drinking water	10	0	0	0	0	0	0	10
Dis. gases methane, ethane, ethene (isotech)	drinking water	10	0	0	0	0	0	0	10
Dissolved Gases, Methane, Ethene, & Ethane (R5x 175)	drinking water	60	0	6	0	0	5	0	71
Ethylene Glycol (B015AH)	drinking water	60	0	6	0	0	5	0	71
DRD (B015M)	drinking water	60	0	6	0	0	5	0	71
GRO (B015AH)	drinking water	60	0	6	0	0	5	0	71
Gamma Spec (U-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (B01.1)	drinking water	60	0	6	0	0	5	0	71
Glycols incl. 2-Butoxyethanol (B316)	drinking water	60	0	6	0	0	5	0	71
Gross Alpha/Beta (900.0)	drinking water	60	0	6	0	0	5	0	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sb, Sn, Be, Cd, Co, Cl, U, V, W, Pb (200.8/245.1)	drinking water	60	0	6	0	0	5	6	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sb, Sn, Be, Cd, Co, Cl, U, V, W, Pb (200.8/245.1)	Filtered drinking water	60	0	6	0	0	5	6	71
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking water	60	0	6	0	0	5	0	71
Nitrate/Nitrite (353.2)	drinking water	60	0	6	0	0	5	0	71
Oil & Grease (HEMT) (1664A)	drinking water	60	0	6	0	0	5	0	71
pH (9040C)	drinking water	60	0	6	0	0	5	0	71
Phosphorus, Total (265.1)	drinking water	60	0	6	0	0	5	0	71
Ra-226 (909.1)	drinking water	60	0	6	0	0	5	0	71
Ra-228 (904.0)	drinking water	60	0	6	0	0	5	0	71
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICs) (OKC03.2)	drinking water	60	0	6	0	0	5	3	71
Solids, Total Dissolved (TDS) (2540C)	drinking water	60	0	6	0	0	5	0	71
Solids, Total Suspended (TSS) (2540D)	drinking water	60	0	6	0	0	5	0	71
Stable isotopes of water (D,H) (isotech)	drinking water	10	0	0	0	0	0	0	10
Turbidity, Nephelometric (180.1)	drinking water	60	0	6	0	0	5	0	71
2-Methoxyethanol (B015B)	drinking water	60	0	6	0	0	5	0	71
1-methylnaphthalene (B270 or equivalent)	drinking water	60	0	6	0	0	5	0	71
Volatiles incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 9.5 ug/L CL) (OKC03.2)	drinking water	60	0	6	1 per cooler	0	5	3	71 + Trip Blanks for Coolers
Notes: 1. This QA sample will be an aqueous matrix. 2. Sample to be collected only if non-dedicated sampling equipment is used. 3. Estimate based on 3 sampling days Key: Blgd = Background QA/QC = Quality assurance/quality control MS/MSD = Matrix Spike/Matrix Spike Duplicate Sr = Strontium Dup = Duplicate									

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TABLE 1 - 12/28/11
FIELD AND QC SAMPLING SUMMARY
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

Fort Meade Lab

Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not including MS/MSD) ³
				Dup	Trip ¹ Blanks	Rinsate ^{1,2} Blanks	Field ¹ Blanks	MS/MSD	
Alkalinity (SM 2320B) (Total Hardness, HCO ₃ , CO ₃) (2320B, 2340B)	drinking water	60	0	6	0	0	5	0	71
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	drinking water	60	0	6	0	0	5	3	71
Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO ₄ (300.0)	drinking water	60	0	6	0	0	5	0	71
Glycols incl. 2-Butoxyethanol (8321 Modified)	drinking water	60	0	6	0	0	5	0	71
Ethylene Glycol (8015M)	drinking water	60	0	6	0	0	5	0	71
2-Methoxyethanol (8321 and OLC03.2)	drinking water	60	0	6	0	0	5	0	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Ti, U, V, K, Li, Hg (200.8/245.1)	drinking water	60	0	6	0	0	5	6	71
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Ti, U, V, K, Li, Hg (200.8/245.1)	Filtered drinking	60	0	6	0	0	5	6	71
pH (9040C)	drinking water	60	0	6	0	0	5	0	71
Phosphorus, Total (365.1)	drinking water	60	0	6	0	0	5	0	71
Nitrate/Nitrite (353.2)	drinking water	60	0	6	0	0	5	0	71
Semi-Volatiles (TCL plus TICs) (CLP Trace plus TICs) (OLC03.2)	drinking water	60	0	6	0	0	5	3	71
1-methylnaphthalene (8270 or equivalent)	drinking water	60	0	6	0	0	5	0	71
Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2)	drinking water	60	0	6	1 per cooler	0	5	3	71 + Trip Blanks for Coolers
Oil & Grease (HEM) (1664A)	drinking	60	0	6	0	0	5	0	71
Solids, Total Dissolved (TDS) (2540C)	drinking	60	0	6	0	0	5	0	71
Solids, Total Suspended (TSS) (2540D)	drinking	60	0	6	0	0	5	0	71
Notes:				Key:					
1. This QA sample will be an aqueous matrix.				Bkgd = Background					
2. Sample to be collected only if non-dedicated sampling equipment is used.				MS/MSD = Matrix Spike/Matrix Spike Duplicate					
3. Estimate based on 5 sampling days				CRQL = Contract-Required Quantitation limit.					
				Dup = Duplicate					
				QA/QC = Quality assurance/quality control					
				Sr = Strontium					

Contract No. EP-S3-10-14

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FIELD AND QC SAMPLING SUMMARY

DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

EPA Region 9 Lab

Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not including MS/MSD) ³
				Dup	Trip ¹ Blanks	Rinsate ^{1,2} Blanks	Field ¹ Blanks	MS/MSD	
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	drinking water	60	0	6	0	0	5	0	71
DRO (8015M)	drinking	60	0	6	0	0	5	0	71
GRO (8015M)	drinking	60	0	6	0	0	5	0	71
Notes: 1. This QA sample will be an aqueous matrix. 2. Sample to be collected only if non-dedicated sampling equipment is used. 3. Estimate based on 5 sampling days									
Key: Bkgd = Background MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. Dup = Duplicate									
QA/QC = Quality assurance/quality control Sr = Strontium									

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TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA EPA Region 2 Lab									
Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not
				Dup	Trip ¹	Rinsate ^{1,2}	Field ¹	MS/MSD	
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking	60	0	6	0	0	5	0	71
Notes: 1. This QA sample will be an aqueous matrix. 2. Sample to be collected only if non-dedicated sampling equipment is used. 3. Estimate based on 5 sampling days				Key: Bkgd = Background MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. Dup = Duplicate QA/QC = Quality assurance/quality control Sr = Strontium					

TABLE 1 - 12/28/11
FIELD AND QC SAMPLING SUMMARY
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

Isotech Lab

Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not including MS/MSD) ³
				Dup	Trip ¹ Blanks	Rinsate ^{1/2} Blanks	Field ¹ Blanks	MS/MSD	
d ¹³ C and d ² H of methane (isotech)	drinking water	10	0	0	0	0	0	0	10
d ¹³ C of inorganic carbon (isotech)	drinking water	10	0	0	0	0	0	0	10
Stable isotopes of water (O,H) (isotech)	drinking water	10	0	0	0	0	0	0	10
Complete compositional analysis of headspace gas (isotech)	drinking	10	0	0	0	0	0	0	10
Diss. gases methane, ethane, ethene (isotech)	drinking	10	0	0	0	0	0	0	10
<div>Notes:</div> <div> <div>1. This QA sample will be an aqueous matrix.</div> <div>2. Sample to be collected only if non-dedicated sampling equipment is used.</div> <div>3. Estimate based on 5 sampling days</div> </div> <div> <div>Key:</div> <div>Bkgd = Background</div> <div>MS/MSD = Matrix Spike/Matrix Spike Duplicate</div> <div>CRQL = Contract-Required Quantitation limit.</div> <div>Dup = Duplicate</div> </div> <div> <div>QA/QC = Quality assurance/quality control</div> <div>Sr = Strontium</div> </div>									

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FIELD AND QC SAMPLING SUMMARY
DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

NAREL Lab

Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not including MS/MSD) ³
				Dup	Trip ¹ Blanks	Rinsate ^{1,2} Blanks	Field ¹ Blanks	MS/MSD	
Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238) (901.1)	drinking	60	0	6	0	0	5	0	71
Ra-226 (903.1)	drinking	60	0	6	0	0	5	0	71
Ra-228 (904.0)	drinking	60	0	6	0	0	5	0	71
Gross Alpha/Beta (900.0)	drinking	60	0	6	0	0	5	0	71
<p>Notes:</p> <p>1. This QA sample will be an aqueous matrix.</p> <p>2. Sample to be collected only if non-dedicated sampling equipment is used.</p> <p>3. Estimate based on 5 sampling days</p> <p>Key:</p> <p>Bkgd = Background</p> <p>MS/MSD = Matrix Spike/Matrix Spike Duplicate</p> <p>CRQL = Contract-Required Quantitation limit.</p> <p>Dup = Duplicate</p> <p>QA/QC = Quality assurance/quality control</p> <p>Sr = Strontium</p>									

Contract No. EP-53-10-14

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FIELD AND QC SAMPLING SUMMARY

DIMOCK RESIDENTIAL GROUNDWATER SITE
DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA

TechLaw Pace Lab

Parameter/Method	Matrix	Field Samples	Bkgd	QC Sample Summary					Total Field and QA/QC Analyses (not including MS/MSD) ³
				Dup	Trip ³ Blanks	Rinsate ^{H2} Blanks	Field ¹ Blanks	MS/MSD	
Bacteria (total coliform, HPC)	drinking water	60	0	6	0	0	5	0	71
Turbidity, Nephelometric (180.1) (Field measurement)	drinking water	60	0	6	0	0	5	0	71
<p>Notes:</p> <p>1. This QA sample will be an aqueous matrix.</p> <p>2. Sample to be collected only if non-dedicated sampling equipment is used.</p> <p>3. Estimate based on 5 sampling days</p> <p>Key:</p> <p>Bkgd = Background</p> <p>MS/MSD = Matrix Spike/Matrix Spike Duplicate</p> <p>CRQL = Contract-Required Quantitation limit.</p> <p>Dup = Duplicate</p> <p>QA/QC = Quality assurance/quality control</p> <p>Sr = Strontium</p>									

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